



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 621
HONOLULU, HAWAII 96809

December 15, 2004

To: Interested Parties:

Subject: **Proposed Revisions to the Well Construction and Pump Installation Permitting Process**

We are soliciting comments on our proposed revisions to the Well Construction and Pump Installation Permitting Process. The proposed revisions follow the recent update of the Hawaii Well Construction and Pump Installation Standards and are also in response to the concerns of drillers, landowners and consultants, as well as Commission staff, with the current process.

The permit revision process was informed and guided by comments and testimonies received through the following public outreach efforts:

- Waimea Round Table (July 31, 2003)
- Hawaii Well Construction and Pump Installation Standards outreach efforts (August 2003 to February 2004)
- CWRM Briefing (March 17, 2004)
- CWRM Briefing (April 21, 2004)
- Email Notice to Drillers, Consultants, Stakeholders (May 7, 2004)
- Videoconference (June 9, 2004)
- Website Notice (June 9, 2004)
- Summary Update (This letter and/or email attachment)

The following is a summary of the major technical and process changes:

- Elevation Surveys – deferred for pumps < 70 gpm.
- Step Drawdown Tests – not required for pumps < 70 gpm.
- Technical variances or exemptions are now ministerial.
- Landowners and well operators do not have to sign applications and completion reports.
- Permits will only be issued to properly licensed contractors. However, any party may apply for the permit without identifying the contractor, but the permit application approval will not be subject to the 90-day deadline. Following agency review, staff will issue a Promissory Note that once the contractor is identified and signs the original application, a permit will be issued to the contractor.
- Pre-review from other agencies is encouraged (specifically, Dept. of Health, Land Division, Office of Conservation and Coastal Lands, and Historic Preservation Division).
- Permit not subject to the requirements of Chapter 343.
- Once all construction requirements of the permit are satisfied, transfer of responsibilities from the contractor to the landowner will be accomplished through a Certificate of Completion.
- Well Construction Permits and Pump Installation Permits may be issued simultaneously.

To: Interested Parties
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We are providing a flowchart that illustrates the proposed process revisions, the new application form, an instruction sheet for filling in the application, and a worksheet that describes the various steps, responsible parties, and legal deadlines associated with the new permitting process. Also attached are the new standard conditions for well and pump permits, subject to approval of the Commission. All these documents can be found on our website at <http://www.hawaii.gov/dlnr/cwrn/forms/pprevision.pdf>.

You may submit your comments to the Commission via letter, fax (at 808-587-0219), or e-mail at dlnr.cwrn@hawaii.gov. Your comments and suggestions are welcomed and encouraged. We have briefed the Commission about the final proposed revisions at its December 15, 2004 meeting and plan full Commission approval of this updated process by its tentative January 18, 2005 meeting.

Please call Roy Hardy, Ground-Water Regulation Branch Chief, at 587-0225 if you have any questions or would like additional details on the proposed alternatives.

Sincerely,

Handwritten signature of W. Roy Hardy in black ink. The signature is written in a cursive style, with the first name 'W.' and last name 'Hardy' clearly visible. Below the signature, the word 'for' is written in a smaller, handwritten font.

YVONNE Y. IZU
Deputy Director

RH:ss



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION /
PUMP INSTALLATION PERMIT

For Official Use Only:

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 6 copies and a non-refundable filing fee of **\$25.00** payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at **587-0225**. For further information and updates to this application form, visit <http://www.hawaii.gov/dlnr/cwrm>.

WELL LOCATION INFORMATION					
1. STATE WELL NO. (if already assigned)		2. WELL NAME		3. ISLAND	
				4. TMK _____ - _____ - _____ : _____ zone sec plat parc	
The following be attached before this application is accepted as complete (check off if attached): <input type="checkbox"/> Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map <input type="checkbox"/> Property tax map, showing well location referenced to established property boundaries <input type="checkbox"/> Photograph of the proposed well site <input type="checkbox"/> A schematic diagram showing the well site, access road and proposed well infrastructure (if applicable)					
5. WELL OPERATOR'S NAME/COMPANY		Well Operator's Contact		6. LANDOWNER'S NAME/COMPANY	
				Landowner's Contact	
Well Operator's Mailing Address			Landowner's Mailing Address		
Well Operator's Phone		Well Operator's Fax		Well Operator's E-mail	
7. Have you consulted with the Historic Preservation Division of the Department of Land and Natural Resources regarding potential impacts of well construction activities on historic sites? <input type="checkbox"/> Yes (please attach applicable documentation from Historic Preservation) <input type="checkbox"/> No (attach a short description of history of past land use)					
PROPOSED WELL CONSTRUCTION			PROPOSED PUMP INSTALLATION		
8. Proposed Work <input type="checkbox"/> Construct New Well <input type="checkbox"/> Modify Existing Well <input type="checkbox"/> Abandon/Seal Well		9. Construction Type <input type="checkbox"/> Drilled <input type="checkbox"/> Dug <input type="checkbox"/> Shaft <input type="checkbox"/> Tunnel		11. Proposed Work <input type="checkbox"/> Install New Pump <input type="checkbox"/> Replace Pump	
				12. Proposed Pumping Rate, gpm (gallons per minute)	
				13. Proposed Amount of Withdrawal, gpd (gallons per day)	
10. Is this well part of a battery of wells? <input type="checkbox"/> Yes <input type="checkbox"/> No				14. Method of flow measurement <input type="checkbox"/> Flowmeter <input type="checkbox"/> Open Pipe <input type="checkbox"/> Weir <input type="checkbox"/> Orifice <input type="checkbox"/> Other (explain)	
15. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)					
PROPOSED USE					
<input type="checkbox"/> 16. Municipal (water systems serving greater than 25 individuals or 15 service connections)					
<input type="checkbox"/> 17. Domestic Number of units to be served: _____					
<input type="checkbox"/> 18. Industrial (describe)					
<input type="checkbox"/> 19. Irrigation (describe crop and no. of acres)					
<input type="checkbox"/> 20. Military (describe)					
<input type="checkbox"/> 21. Other (describe)					
OTHER LEGAL REQUIREMENTS <i>If required, items 22. and 23. must be obtained before the Commission can legally issue a permit:</i>					
22. Conservation District Use Permit (CDUP) <input type="checkbox"/> Required, CDUP # _____ date approved _____ <input type="checkbox"/> Not Required (attach documentation from OCCL)					
23. Special Management Area Permit (SMAP) <input type="checkbox"/> Required, SMA # _____ date approved _____ <input type="checkbox"/> Not Required (attach documentation from applicable County agency)					
Additional remarks, explanations, etc. (attach additional sheet if more space is needed)					
NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to \$5000/day.					
24. WELL DRILLER (Must be filled out if application is for Well Construction)			25. PUMP INSTALLER (Must be filled out if application is for Pump Installation)		
_____ Licensee business name C-57 License No.			_____ Licensee business name C-57/C-57a/A License No.		
_____ Signature Print Date			_____ Signature Print Date		
_____ Address			_____ Address		
_____ Phone Fax E-mail			_____ Phone Fax E-mail		

PROPOSED WELL SECTION *(Please attach schematic if different from diagram provided below)*

Hole Diameter: _____ in.

Elevation at top of casing _____ ft., msl*

Minimum of 2' Radius & 4" Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Ground Elevation: _____ ft., msl*

Please refer to the
**HAWAII WELL CONSTRUCTION AND
PUMP INSTALLATION STANDARDS**
to ensure that your as-built is in compliance with
applicable standards.

Cement Grout: _____ ft.
(min. 70% of distance from
ground elevation to top of
water surface or 500 ft.,
whichever is less.)

Annular space between hole
and casing (1.5" for positive
displacement, 3" for other
methods):
_____ in.

Rock or Gravel Packing:
_____ ft.
Material:
☐ Crushed Basalt
☐ Rounded Gravel

Estimated Water Level
Elevation:
_____ ft. msl*

Grouting method:
☐ Positive
displacement
☐ Other

Total Depth
_____ ft.

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev))
Total Length: _____ ft.
Nominal Diameter: _____ in.
Wall Thickness: _____ in.
Bottom Elevation: _____ ft., msl*

Open Casing: ☐ Perforated ☐ Screen
Total Length: _____ ft.
Nominal Diameter: _____ in.
Wall Thickness: _____ in.
Bottom Elevation: _____ ft., msl*
note: *Neither bentonite nor mud should be used in
saturated zone during drilling*

Open Hole:
Length: _____ ft.
Diameter: _____ in.
Bottom Elevation: _____ ft., msl*

* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or,

$$\text{Bottom Elevation of Well Limit} = \left(\text{Water Elevation} - \frac{41 \times \text{Water Level Elevation}}{4} \right)$$

Example: Estimated + 2 ft. Water Level Elev. \longrightarrow Bottom Elevation of Well Limit = $\left(2 - \frac{41 \times (2)}{4} \right) = -18.5$ ft.

Solid Casing Material:

Carbon Steel: compliant with (check one or more): ☐ ANSI/AWWA C200 ☐ API Spec. 5L ☐ ASTM A53 ☐ ASTM A139

And compliant with (check one or more): ☐ ASTM A242 (or A606) ☐ Type E ☐ Type S ☐ Grade B ☐ Other

Stainless Steel: (check one): ☐ ASTM A409 (production wells) ☐ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) ☐ Schedule 40 ☐ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): ☐ Schedule 40 ☐ Schedule 80 ☐ Schedule 120

Thermoset Plastic: (check one)

- ☐ Filament Wound Resin Pipe conforming to ASTM D2996
- ☐ Centrifugally Cast Resin Pipe conforming to ASTM D2997
- ☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
- ☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
- ☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
- ☐ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:

Carbon Steel: compliant with (check one or more): ☐ ANSI/AWWA C200 ☐ API Spec. 5L ☐ ASTM A53 ☐ ASTM A139

And compliant with (check one or more): ☐ ASTM A242 (or A606) ☐ Type E ☐ Type S ☐ Grade B ☐ Other

Stainless Steel: (check one): ☐ ASTM A409 (production wells) ☐ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) ☐ Schedule 40 ☐ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): ☐ Schedule 40 ☐ Schedule 80 ☐ Schedule 120

Thermoset Plastic: (check one)

- ☐ Filament Wound Resin Pipe conforming to ASTM D2996
- ☐ Centrifugally Cast Resin Pipe conforming to ASTM D2997
- ☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
- ☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
- ☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
- ☐ FEP Fluorocarbon Tubing conforming to ASTM D3296

INSTRUCTIONS FOR FILLING OUT WELL CONSTRUCTION/PUMP INSTALLATION PERMIT APPLICATION FORM

CHECKLIST FOR A COMPLETE APPLICATION

- ☐ Fill in the most recent application form.
(check www.hawaii.gov/dlnr/cwrm or call 587-0225 for updates)
- ☐ Fill every line in (both sides of application).
- ☐ Enclose a check for \$25 payable to the Department of Land and Natural Resources.
- ☐ Mark the proposed well location on: the appropriate USGS quad map, the TMK map, the photo and the schematic, and attach to the application.
- ☐ Attach the original and 6 copies of the application form, maps, photo and schematic.
- ☐ Attach letters from OCCL and appropriate county agencies regarding items 22 and 23.
- ☐ Sign the application form.

Send the application and maps, copies, and the filing fee to:

Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

DESCRIPTIONS FOR LINES ON APPLICATION

WELL LOCATION INFORMATION

- STATE WELL NO.** If you already have a state well number assigned, please fill it out here. Otherwise, leave it blank and a well number will be assigned by the CWRM.
- WELL NAME** Give the well a short concise name that will differentiate it from other wells. It is what you want to call the well.
- ISLAND** The island name that the well is located on.
- TMK** Tax Map Key number
- Well operator’s information** Fill in the information for the well operator. This should be the entity that will be responsible for reporting the pumpage when the construction is completed.
- Landowner’s information** Fill in the information for the landowner of the property where the well is located.
- Historic Preservation review** If the parcel(s) affected by construction (well location/access road/infrastructure for well) has been reviewed by the State Department of Land and Natural Resources Historic Preservation Division (through OEQC Environmental Review, Special Management Area Permit, etc.), check “yes” and attach any relevant documentation from Historic Preservation. If the affected parcel(s) has not undergone Historic Preservation review, attach a photograph of the affected area, a schematic diagram (showing the well location, access road and infrastructure for the well), and a short description of the prior use(s) of the land on which the well resides.

*Please note: You are **strongly advised** to contact the Department of Land and Natural Resources, Historic Preservation Division (HP), to obtain a pre-review of your project. In the event that you do not get an HP pre-review and if during the course of either review or the permit itself it is determined that you need HP’s concurrence, your application or permit may be held in abeyance or denied until issues with HP are resolved. To contact HP, please call

PROPOSED WELL CONSTRUCTION

- Proposed work** The proposed work can be the construction of a new well, the modification (deepening, etc.) of an existing well, or the abandonment and sealing of an existing well. Check one box only.
- Construction type** The construction type can be drilled, dug, shaft, or tunnel.
- Battery** Is this well part of a battery of wells? A battery is defined as two or more wells in close proximity that for all intents and purposes functions as a single source.

PROPOSED PUMP INSTALLATION

- Proposed work** The proposed work can be either the installation of a new pump or the replacement of an existing pump. Replacement of an existing pump requires a permit only if the pump is of greater capacity than the existing installed pump. Otherwise, a replacement will only require the submission of a Well Completion Report Part II.
- Proposed pumping rate** The proposed pumping rate of the pump in gallons per minute.
- Proposed amount of withdrawal** The proposed amount of withdrawal in gallons per day, not to exceed (the proposed pumping rate in gallons per minute) x 1440 minutes/day.
- Method of flow measurement** This is the proposed method the operator will be using to measure pumpage for reporting purposes.

PROPOSED SURVEYOR

- Proposed surveyor name and license number** A Hawaii licensed surveyor must establish benchmark elevations for wells where proposed pumps of 70 gpm or more are to be installed, to comply with the well completion report requirements. Proposed pumps less than 70 gpm may have this requirement deferred until the Commission deems it is necessary. If you wish to defer this requirement and your pump is less than 70 gpm, please write “deferred” in this space.

PROPOSED USE

- Municipal Use** is domestic, industrial, and commercial use of water through public services available to persons of a county for the promotion and protection of their health, comfort, and safety, for the protection of property from fire, and for the purposes listed under the term "domestic use".
- Domestic Use** is any use of water for individual personal needs and for household purposes such as drinking, bathing, heating, cooking, noncommercial gardening, and sanitation.
- Industrial Use** is for uses such as cooling or processing water, etc.
- Irrigation Use** is for golf courses, agriculture, etc.
- Military Use** is water used by the military from military operated water supply systems.
- Other** Use not described in items 14 through 18. Please add a description.

OTHER LEGAL REQUIREMENTS

- Conservation District Use Permit (CDUP)** To find out if a CDUP is necessary, please contact the Office of Conservation and Coastal Lands of DLNR at 587-0377
- Special Management Area Permit (SMAP)** To determine if an SMAP is necessary, on Oahu call 527-5374; on Hawaii call 961-8288; for Maui County call 270-7235; on Kauai call 241-6677

SIGNATURES

- Well Driller** This section must be filled out completely for the Well Construction Permit application to be accepted as complete.
- Pump Installer** This section must be filled out completely for the Pump Installation Permit application to be accepted as complete.

COMMISSION ON WATER RESOURCE MANAGEMENT

WELL CONSTRUCTION/PUMP INSTALLATION

PERMIT PROCESS WORKSHEET

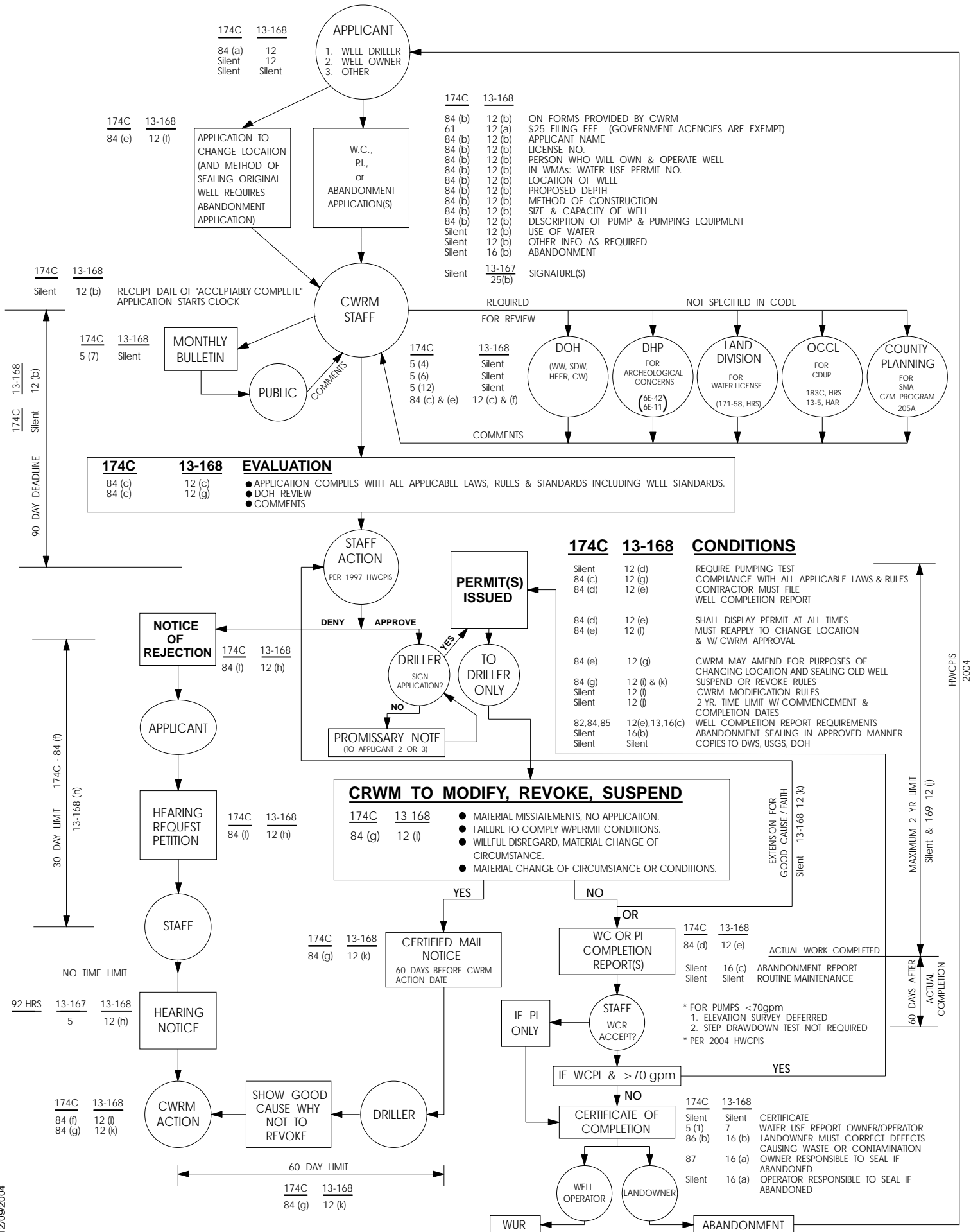
(revised 11/9/04)

Step No.	Description	Responsible Party	Legal Deadline
1	Ensure that if items 22 and 23 of the application are required, that they are obtained prior to applying for a permit.	Applicant	None
2	Application for Well Construction (or modification) and/or Pump Installation (or replacement with larger capacity than existing pump - see note B below)	Licensed Well Driller (for Well Construction) and/or Licensed Pump Contractor (for Pump Installation) (see note C below)	None
3	Issuance of Well Construction Permit to Well Driller (if applied for)	CWRM	Within 90 days of acceptance of completed application & contingent upon other agencies' legal requirements. (See note A below)
4	Issuance of Pump Installation Permit to Pump Installer (if applied for)	CWRM	Within 90 days of acceptance of completed application & contingent upon other agencies' legal requirements. (See note A below)
5	Construction of well. Note: a) If the well is to be abandoned during the course of the Well Construction Permit, and no further work is to be done, the applicant shall apply for and obtain a Well Abandonment Permit prior to doing any abandonment work. b) If the well is to be abandoned and relocated during the course of the Well Construction Permit, the applicant shall apply for and obtain a Well Abandonment Permit prior to doing any abandonment work, and a new Well Construction Permit shall be applied for and obtained prior to doing any new work (i.e. go back to step 1 above).	Licensed Well Driller	Within 2 years of issuance of Well Construction Permit
6	Installation of a temporary test pump that can adequately conduct a step-drawdown test (if proposed pump > 70 gpm).	Licensed Well Driller or Licensed Pump Installer	Within 2 years of issuance of Well Construction Permit
7	Installation of permanent pump	Licensed Pump Installer	Within 2 years of issuance of Pump Installation Permit
8	Application for permit extension (if required)		None
9	Well Completion Report Part I (including Elevation Survey and Pump Tests, if applicable) to be returned completed to CWRM	Licensed Well Driller	Within 60 days of completion of Well Construction (the date that ALL aspects of Well Completion Report Part I can be filled in)
10	Well Completion Report Part II to be returned to CWRM	Licensed Pump Installer	Within 60 days of completion of Pump Installation (the date that ALL aspects of Well Completion Report Part II can be filled in)
11	Acceptance of Well Completion Report Part I, Elevation Survey	CWRM	None
12	Issuance of Certificate of Well Construction Completion to Landowner	CWRM	None
13	Acceptance of Well Completion Report Part II	CWRM	None
14	Issuance of Certificate of Pump Installation Completion to Landowner	CWRM	None
15	Pumpage may commence, Water Use Reporting required	Well Operator	Monthly recording
16	Abandonment (initiated in Step 2 of process)	Landowner	Until well sealed

NOTES:

- A For non-compliance of other agencies' legal requirements that preclude the Commission from issuing a permit, your application may:
 - a) have the 90-day deadline for approval waived (at your request); or b) be denied and you can seek recourse at a Commission hearing
- B If a pump replacement of equal or less than the existing capacity is done, then only step 10 is required (Well Completion Report Part II)
- C If a contractor is not selected, the application will not be accepted as complete, but may be routed for comments. If the application undergoes a satisfactory review, a promissory note will then be issued indicating that a permit will be issued upon selection of a contractor without outstanding issues with the Commission.

WELL CONSTRUCTION / PUMP INSTALLATION PERMIT PROCESS



WELL CONSTRUCTION PERMIT

Well Name, Well No. Well No

Note: This permit shall be prominently displayed at the construction site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of **Well Name** (Well No. **Well No**) at TMK **tmk**, **island**, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

1. The Chairperson of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules.
2. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.
3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/cwrm/forms.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit **may be reduced** in the event that the pump test does not support the capacity.
4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson.
5. The permittee shall incorporate mitigation measures to prevent construction debris from entering the aquatic environment, to schedule work to avoid periods of high rainfall, and to revegetate any cleared areas as soon as possible.
6. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources' Division of Historic Preservation.
7. The proposed well construction shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct the well shall not constitute a determination of correlative water rights.
8. The Well Completion Report Part I shall be submitted to the Chairperson within sixty (60) days after completion of work (please contact staff or visit www.hawaii.gov/dlnr/cwrm/forms.htm for current form).
9. The permittee shall comply with all applicable laws, rules, and ordinances; non-compliance may be grounds for revocation of this permit.
10. The well construction permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the Hawaii Well Construction & Pump Installation Standards (February 2004; HWCPIIS). If the HWCPIIS are not followed and as a consequence water is wasted or contaminated, **a lien on the property may result**. Any variances from the standards shall be approved by the Chairperson **prior** to invoking the variance.
11. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Chairperson no later than the date the permit expires.
12. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.
13. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.
14. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with Hawaii Administrative Rules §13-168-12(f).
15. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: **date of approval**

Expiration Date: **expiration date**

PETER T. YOUNG, Chairperson

Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to \$5,000 per day starting from the permit date of approval.

Driller's Signature: _____ C-57 License # : _____ Date: _____

Printed Name: _____ Firm or Title: _____

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachment
c:

Well operator and landowner
USGS
Department of Health (Safe Drinking Water, Wastewater, Clean Water and HEER branches)
island Department of Water Supply

PUMP INSTALLATION PERMIT

Aloha Well, Well No. 1234-56

Note: This permit shall be prominently displayed at the site until the work is completed

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Aloha Well (Well No. 1234-56) at TMK 5-5-5: 55, Oahu, subject to the Hawaii Well Construction & Pump Installation Standards (February 2004) which include but are not limited to the following conditions:

1. The Chairperson to the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work covered by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules
2. No withdrawal of water shall be made other than for testing until a Certificate of Pump Installation Completion has been issued by the Commission.
3. This permit shall be prominently displayed, or made available, at the site of construction work until work is completed.
4. The pump installation permit shall be for installation of a **Error! Reference source not found.** gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.
5. A water level measurement access shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels.
6. The permittee shall install an approved meter or other appropriate means for measuring and reporting withdrawals and appropriate devices or means for measuring chlorides and temperature at the well head.
7. Well Completion Report Part II shall be submitted to the Chairperson within 60 days after completion of work. This form can be obtained by contacting staff or on the internet at www.hawaii.gov/dlnr/cwrm.
8. The permittee, well operator, and/or well owner shall comply with all applicable laws, rules, and ordinances, and non-compliance may be grounds for revocation of this permit.
9. The pump installation permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. This permit is also subject to the Hawaii Well Construction & Pump Installation Standards (February 2004; HWCPIIS). If the HWCPIIS are not followed and as a consequence water is wasted or contaminated, **a lien on the property may result**. Any variances from the standards shall be approved by the Chairperson **prior** to invoking the variance.
10. The work proposed in the pump installation permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Chairperson upon a showing of good cause and good-faith performance. An application to extend the permit shall be submitted on forms provided by the Commission to the Chairperson no later than the date the permit expires.
11. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit.
12. Special conditions in the attached cover transmittal letter are incorporated herein by reference.

Date of Approval: **January 1, 2000**
Expiration Date: **January 1, 2002**

PETER T. YOUNG, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I understand that this permit is not to be transferred to any other entity. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to \$5,000 per day starting from the permit date of approval.

Installer's Signature: _____ C-57, C-57a, or A License #: _____ Date: _____

Printed Name: _____ Firm or Title: _____

Please sign both copies of this permit, return one to the Chairperson, and retain the other for your records.

Attachments

c: Well operator
Landowner
USGS
Department of Health (Safe Drinking Water, Wastewater, Clean Water & HEER branches)
Oahu Department of Water Supply
Campbell Estate